

Staff Summary Sheet *SAF/IEI 110305-01*

	To	Action	Signature (Surname), Grade, Date		To	Action	Signature (Surname), Grade, Date
1	AF/ILEX	Coord	Tinsley, Col, 31 Oct 05	4	SAF/IEI	Sig	Kuhn, SES, 7 Nov 05
2	AF/ILE	Coord	KFerguson, 1 Nov 05				
3	AF/IL	App	Concur w/ Comment Aimone, SES, 2 Nov				

Grade and Surname of Action Officer GS-14 Doddington	Symbol AFCESA/CESM	Phone DSN 523-6222	Suspense Date
Subject FY05 Annual Energy Report to Congress (Part 1)			SSS Date 25 Oct 05

Summary

1. Purpose. Obtain SAF/IEI signature on memo (Tab 1) forwarding the OMB Circular A-11, Exhibit 55, the FY05 DoD Energy Scorecard and the FY05 DoD data Management Report to OSD/ATL.

2. Background.

a. Executive Order 13123, 4 Jun 99, requires submittal of an annual energy report. OSD/ATL requires inputs (divided into two submissions) for the past fiscal year on each Service's energy program (Tab 2). OSD/ATL has asked for Service Reports by 28 Oct 05 (Part 1). The second submission is due to OSD/ATL by 10 Nov 05.

b. The SAF/IEI memo includes three attachments:

- (1) The OMB Circular A-11, Exhibit 55 (Atch 1)
- (2) The AF input to the FY05 DoD Energy Scorecard (AF not required to sign Scorecard) is at (Atch 2).
- (3) The AF input to the FY05 DoD Energy Management Data Report is at (Atch 3).

Note: Non-Fleet Vehicles and Other Equipment numbers provided by HQ USAF/ILGM (Tab 3).

c. The standard facilities energy reduction was -26.1 percent. With the allowance for renewable energy credits, the energy reduction increases to -30.0 percent. This year's energy reduction goal was -30.0 percent. This represents a DUERS input completion rate of 90.2%. The second submission to OSD/ATL would provide the final percent reduction for the Air Force.

3. Recommendation. SAF/IEI sign memo at Tab 1 and forward package to OSD/ATL.

////SIGNED/////

GUS G. ELLIOTT JR., Colonel, USAF
Commander
DSN 523-6101

3 Tabs

1. Proposed SAF/IEI Memo w/Atch
2. OSD/ATL Energy Mgt Call, 22 Aug 05
3. HQ USAF/ILGM coordination, 21 Oct 05

plc/Hov



DEPARTMENT OF THE AIR FORCE
WASHINGTON DC

08 NOV 2005

OFFICE OF THE ASSISTANT SECRETARY

MEMORANDUM FOR DEPUTY UNDER SECRETARY OF DEFENSE
(INSTALLATIONS AND ENVIRONMENT)

FROM: SAF/IEI
1665 Air Force Pentagon
Washington, DC 20330-1665

SUBJECT: Submission of Annual Energy Report Requirements Part 1 of 2

The attached OMB Circular A-11, Exhibit 55, FY04 Energy Scorecard and the FY05 Data Management Report is provided in accordance with your memorandum request of 22 Aug 05. If your staff has any questions concerning this matter, please contact Mr. Gerald Doddington, HQ AFCESA/CESM, Tyndall AFB FL, DSN 523-6222.

A handwritten signature in black ink, appearing to read "Fred W. Kuhn", is positioned above the typed name and title.

FRED W. KUHN
Deputy Assistant Secretary of the Air Force
(Installations)

Attachments:

1. OMB Circular A-11, Exhibit 55
2. FY05 DoD Energy Scorecard
3. FY05 DoD Energy Management Data Report

cc:
SAF/US
HQ USAF/IL

FY 2007 FUNDING REQUEST FOR ENERGY AND TRANSPORTATION EFFICIENCY MANAGEMENT

Agency: USAF
Date: 21-Oct-05

Prepared by: Gerald Doddington
Phone: DSN: 523-6222

1.1 IDENTIFICATION OF FUNDS FOR ENERGY EFFICIENCY MANAGEMENT AS REQUIRED BY E.O. 13123

	2005		2006		2007		Page(s) in Budget Submission to OMB
	Amount (thou. \$)	Account(s)	Amount (thou. \$)	Account(s)	Amount (thou. \$)	Account(s)	
ESPC and/or UESC negotiation/administration	\$1,328	O&M	\$1,539	O&M	\$1,651	O&M	
Direct spending on energy efficiency	\$61,310	O&M	\$65,346	O&M	\$73,291	O&M	ECIP
	\$11,099	ECIP	\$17,422	ECIP	\$16,728	ECIP	
Direct spending on training	\$323	O&M	\$659	O&M	\$704	O&M	
Energy Star @ building design/construction incremental costs	\$550	O&M	\$455	O&M	\$810	O&M	
"Green Power" purchases	\$12,657	O&M	\$19,377	O&M	\$24,253	O&M	
On-site generation and renewable power generation	\$2,771	O&M	\$4,721	O&M	\$7,148	O&M	
Other (please specify) Dev Water Mgt plans	\$2,692	O&M	\$1,912	O&M	\$2,272	O&M	
Amount of FY 05 energy cost savings realized, including financial benefits resulting from shared energy savings contracts	\$2,689		N/A	N/A	N/A	N/A	N/A
Total	\$81,631	O&M	\$94,009	O&M	\$110,129	O&M	
	\$11,099	ECIP	\$17,422	ECIP	\$16,728	ECIP	

1.2 IDENTIFICATION OF FUNDS FOR TRANSPORTATION EFFICIENCY MANAGEMENT AS REQUIRED BY E.O. 13149

	2005		2006		2007		Page(s) in Budget Submission to OMB
	Amount (thou. \$)	Account(s)	Amount (thou. \$)	Account(s)	Amount (thou. \$)	Account(s)	
Acquisition of alternative fuel vehicles	\$7,170.2	3400/3080	\$9,729.7	3400/3080	\$10,702.6	3400/3080	
Infrastructure development and use of alternative fuels	\$6,005.0		\$6,000.0		\$6,000.0		
Implementation of compliance strategy, including any modifications	\$309.2	3400	\$273.9	3400	\$301.2	3400	
Direct spending on training	\$288.9	3400/409	\$291.7	3400/409	\$320.9	3400/409	
Procurement of environmentally preferable motor vehicle products	\$1,499.3	3400/619	\$1,597.9	3400/619	\$1,757.6	3400/619	
Other (please specify) _____							
Total	\$15,272.6		\$17,893.2		\$19,082.3		

FY 2005 Federal Agency Energy Scorecard

Department/Agency Name	Contact Name and Phone
USAF	Gerald Doddington

Did your agency . . .	Yes	No	Anticipated Submittal Date																								
1. Submit its FY 2005 energy report to OMB and DOE by January 1, 2006 (Sec. 303)?	X																										
2. Submit a FY 2006 Implementation Plan by January 1, 2006 (Sec. 302)?	X																										
Did your agency . . .	Yes	No	Comments																								
3. Implement or continue to use renewable energy projects at Federal installations or facilitate the siting of renewable generation on Federal land in FY 2005 (Sec. 204)? (Report all self-generated renewable energy from projects installed after 1990; refer to Table 1-7 on the Energy Management Data Report)	X		<p>If yes, how many projects and how much energy generated? (Specify unit: MWH or MMBtu)</p> <table border="0"> <thead> <tr> <th></th><th># Projects</th><th>Energy</th><th>Unit</th></tr> </thead> <tbody> <tr> <td>Solar</td><td style="text-align: center;">11</td><td style="text-align: center;">142.3</td><td>MWH</td></tr> <tr> <td>Wind</td><td style="text-align: center;">3</td><td style="text-align: center;">5,851.3</td><td>MWH</td></tr> <tr> <td>Thermal¹</td><td style="text-align: center;">9</td><td style="text-align: center;">60,134.4</td><td>MMBtu</td></tr> <tr> <td>Biomass</td><td style="text-align: center;">2</td><td style="text-align: center;">22,501.6</td><td>MMBtu</td></tr> <tr> <td>Other RE²</td><td style="text-align: center;">4</td><td style="text-align: center;">1920.3</td><td>MMBtu</td></tr> </tbody> </table>		# Projects	Energy	Unit	Solar	11	142.3	MWH	Wind	3	5,851.3	MWH	Thermal ¹	9	60,134.4	MMBtu	Biomass	2	22,501.6	MMBtu	Other RE ²	4	1920.3	MMBtu
	# Projects	Energy	Unit																								
Solar	11	142.3	MWH																								
Wind	3	5,851.3	MWH																								
Thermal ¹	9	60,134.4	MMBtu																								
Biomass	2	22,501.6	MMBtu																								
Other RE ²	4	1920.3	MMBtu																								
4. Purchase energy generated from new renewable energy sources in FY 2005 (Sec. 204)? ³ (Refer to Table 1-6 on the Energy Management Data Report)	X		<p>If yes, how much: <u>1,047,766</u> MWH or _____ MMBtu</p>																								
5. Invest direct FY 2005 appropriations in projects contributing to the goals of the Order (Sec. 301)?	X		<p>If yes, how much:⁴ <u>\$81,631K</u></p>																								
6. Specifically request funding necessary to achieve the goals of the Order in its FY 2007 budget request to OMB (Sec. 301)? (Refer to OMB Circular A-11, Section 25.5, Table 2)	X		<p>If yes, how much:⁵ <u>\$110,129K</u></p>																								
7. Perform energy audits of 10% of its facility space during the fiscal year (Sec. 402)?	X		<p>Total square footage of facility space audited this FY? <u>63,734k</u>(sf) Total square footage of facility space? <u>626,453</u>(sf) What percentage of facility space was audited during the FY? <u>10.2</u> (%) How much facility space has been audited since 1992?⁶ <u>107</u> (%)</p>																								
8. Issue to private-sector energy service companies (ESCOs) any energy savings performance contract (ESPC) delivery orders (Sec. 403(a))? (Refer to Table 2-2 on the Energy Management Data Report)	X		<p>How many? <u>7</u> Annual savings (MMBtu): <u>388,310</u> Total investment value⁷: <u>\$46,239K</u> Cumulative guaranteed cost savings: <u>\$98,007K</u> Award value: <u>\$98,007K</u></p>																								

1 Examples are geothermal, solar thermal, and geothermal heat pumps. Thermal energy from geothermal heat pumps should be determined as follows: Thermal energy = Total geothermal heat transferred – electrical energy used.

2 Please specify "Other".

3 "New" renewable energy means sources developed after 1990.

4 Ensure consistency with A-11 and Data Report.

5 Ensure consistency with A-11 and Data Report.

6 Should be greater than 100% if all facility space has been audited at least once since 1992.

7 Investment value includes design, materials, labor, overhead, and profit but excludes contractor's financing costs and government's administration costs. Using investment value allows comparison with other traditional execution methods such as appropriated and working capital funded projects.

Did your agency . . .	Yes	No	Comments
9. Issue any utility energy services contract (UESC) delivery orders (Sec. 403(a))? (Refer to Table 2-3 on the Energy Management Data Report)	X		How many? <u>3</u> Annual savings (MMBtu): <u>97,577</u> Total investment value ⁷ : <u>\$7,980K</u> Cumulative cost savings: <u>\$11,137K</u> Award value: <u>\$11,137K</u>
10. Incorporate energy efficiency requirements into relevant acquisitions (Sec. 403(b)(3))?	X		
11. Adopt and apply the sustainable design principles (e.g., Whole Building Design Guide, Leadership in Energy and Environmental Design (LEED)) to the siting, design, and construction of new facilities or major (budget line item) renovations begun in FY 2005 (Sec. 403(d))?	X		Number of new building (or major renovation) design/construction projects in FY 2005 ⁸ : <u>260</u> Number of these projects that can or will be certified under LEED ⁸ : <u>44</u>
12. Provide training to appropriate personnel ⁹ on energy management (Sec. 406(d))?	X		Number of appropriate personnel trained: <u>2177</u> Total number of appropriate personnel: <u>4279</u>
13. Implement any additional management tools (Sec. 406)?	X		Check all that apply: Awards: <u>X</u> Performance Evaluations: <u>X</u> Total Showcase Facilities: ¹⁰ <u>2</u> Number of Showcase Facilities designated in fiscal year: <u>0</u>
14. Establish Water Management Plans (WMPs) and implement at least 4 Best Management Practices (BMPs) in at least 20% of agency facilities (Sec. 207, 503(f))?	X		Number of facilities with WMPs and 4 BMPs: <u>47</u> Number of facilities in agency inventory: <u>176</u>

NOTE: Provide additional information below if a "No" reply is used for any of the questions above.

⁸ Count projects only once, regardless of phase. For example, if in FY 2005, your agency had 10 new building or major renovation projects, of which 2 can be LEED certified, then report 10 and 2, respectively, in the spaces provided. If the project was designed and reported on in response to this question in a previous year, do not report it as a new project in FY 2005, even if construction commenced or continued in FY 2005.

⁹ Appropriate personnel include the agency energy management team as well as Federal employees and on-site contractors who are energy or facility managers, operations and maintenance workers, design personnel, procurement and budget staff, and legal counsel.

¹⁰ This should be last year's reported total plus facilities designated as a "showcase facility" this year.

	Base Year	Previous Year (2004)	Current Year (2005)	% Change (Current vs. Base)
5. Site Energy Efficiency Improvement Goals (Sec. 202). 1985 Base Year	156,823 Btu/Ft ²	116,470 Btu/Ft ²	109,731 Btu/Ft ²	-30.0 %
6. Industrial/Energy Intensive Facilities Goals (Sec. 203). 1990 Base Year	209,550 Btu/unit	212,642 Btu/unit	197,998 Btu/unit	-5.5 %
7. Source Energy Use (Sec. 206). 1985 Base Year ¹³	197,337 BBtu	159,994.7 BBtu	153,352.0 BBtu	-22.3 %
8. Water Conservation Goal (Sec. 207). 2000 Base Year	51,862.2 MGal	41,142.2 MGal	38,112.7 MGal	-26.5 %
9. Renewable Energy (Sec. 204) Energy used from self-generation and RE purchases	N/A	1151.5 BBtu	3680.0 BBtu	N/A

breivation Key: Btu/Ft² = British thermal units per gross square foot

Btu/unit = British thermal units per unit of productivity (or gross square foot when such a unit is inappropriate or unavailable)

MGal = Million gallons

MMBtu = Million British Thermal Units

BBtu = Billion British Thermal Units

RE = Renewable energy

N/A = Not applicable

11 Please do not change your base year numbers.

12 Please do not change last year's reported numbers.

13 This should be the total source energy for both standard buildings and industrial facilities.

FY 2005 DoD ENERGY MANAGEMENT DATA REPORT

Agency: USAF
 Date: 21-Oct-05
 Prepared by: Mr. Gerald Doddington
 Phone: DSN 523-6222

PART 1: ENERGY CONSUMPTION AND COST DATA

1-1. Standard Buildings/Facilities FY 2005

Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Site-Delivered Btu (Billion)	Est. Source Btu (Billion)	Est. Carbon Emissions (Metric Tons)
Electricity	MWH	7,702,785.8	\$504,127.2	\$0.07 /kWh	26,281.9	91,278.0	1,315,147
Fuel Oil	Thou. Gal.	52,988.0	\$67,395.9	\$1.27 /gallon	7,349.4	7,349.4	146,621
Natural Gas	Thou. Cubic Ft.	23,182,756.5	\$182,352.3	\$7.87 /Thou Cu Ft	23,901.4	23,901.4	345,854
LPG/Propane	Thou. Gal.	2,929.2	\$3,717.6	\$1.27 /gallon	279.7	279.7	4,753
Coal	S. Ton	200,587.8	\$15,639.8	\$77.97 /S. Ton	4,930.4	4,930.4	126,910
Purch. Steam	BBtu	776.3	\$17,685.5	\$22.78 /MMBtu	776.3	1,079.0	27,774
Other	BBtu	3,472.1	\$56,713.7	\$16.33 /MMBtu	3,472.1	3,472.1	
Total Costs:			\$947,632.0		66,991.4	132,290.2	1,967,058
Standard Buildings/Facilities (Thou. Gross Square Feet)		577,927.0			115916.64	228904.71	
				Btu/GSF:			
				Btu/GSF w/ RE			
				Purchase Credit	109730.77	222718.84	
				Btu/GSF w/ RE & Sec. 502(e) Credit	109730.77	222718.84	

1-1a. Standard Buildings/Facilities Out Year Projection

FY 2006				FY 2007			
Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)		
Electricity	MWH	8,857,018.3	\$579,668.7	8,679,877.9	\$568,075.4		
Fuel Oil	Thou. Gal.	52,268.0	\$66,480.1	51,222.7	\$65,150.5		
Natural Gas	Thou. Cubic Ft.	27,009,863.6	\$212,455.8	26,469,666.4	\$208,206.7		
LPG/Propane	Thou. Gal.	2,932.8	\$3,722.1	2,874.2	\$3,647.7		
Coal	S. Ton	196,576.0	\$15,327.0	192,644.5	\$15,020.4		
Purch. Steam	BBtu	1,236.0	\$28,157.8	1,211.2	\$27,594.7		
Other	BBtu	3,402.7	\$55,579.5	3,334.6	\$54,467.9		
Total Costs:			\$961,391.0	Total Costs:	\$942,163.2		
Standard Buildings/Facilities (Thou. Gross Square Feet)		626,453.0		Standard Buildings/Facilities (Thou. Gross Square Feet)		626,453.0	

Note: industrial SF and costs added to FY06/07 projections to meet EPAAct 2005 requirements

1-2. Industrial, Laboratory, Research, and Other Energy-Intensive Facilities

FY 2005

Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Site-Delivered Btu (Billion)	Est. Source Btu (Billion)	Emissions (Metric Tons)
Electricity	MWH	1,334,988.0	\$61,659.1	\$0.05 /kWh	4,555.0	15,819.6	227,931
Fuel Oil	Thou. Gal.	346.7	\$357.1	\$1.03 /gallon	48.1	48.1	959
Natural Gas	Thou. Cubic Ft.	4,378,328.8	\$31,468.1	\$7.19 /Thou Cu Ft	4,514.1	4,514.1	65,318
LPG/Propane	Thou. Gal.	63.4	\$83.4	\$1.31 /gallon	6.1	6.1	103
Coal	S. Ton	0.0	\$0.0	#DIV/0! /S. Ton	0.0	0.0	0
Purch. Steam	BBtu	484.9	\$3,618.1	\$7.46 /MMBtu	484.9	674.0	17,349
Other	BBtu	0.0	\$215.6	#DIV/0! /MMBtu	0.0	0.0	
Total Costs:			\$97,401.3		9,608.1	21,061.8	311,661
Energy-Intensive Facilities (Thou. Gross Square Feet)		48,526.0					
				Btu/GSF:	197,998	434,031	
				Purchase Credit:	197,998	434,031	
				Btu/GSF w/ RE & Sec. 502(e) Credit:	197,998	434,031	

1-2a. Industrial, Laboratory, Research, and Other Energy-Intensive Facilities Out Year Projection

FY 2006				FY 2007		
Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Annual Consumption	Annual Cost (Thou. \$)	
Electricity	MWH	0.0	\$0.0	0.0	\$0.0	
Fuel Oil	Thou. Gal.	0.0	\$0.0	0.0	\$0.0	
Natural Gas	Thou. Cubic Ft.	0.0	\$0.0	0.0	\$0.0	
LPG/Propane	Thou. Gal.	0.0	\$0.0	0.0	\$0.0	
Coal	S. Ton	0.0	\$0.0	0.0	\$0.0	
Purch. Steam	BBtu	0.0	\$0.0	0.0	\$0.0	
Other	BBtu	0.0	\$0.0	0.0	\$0.0	
Total Costs:			\$0.0	Total Costs:		\$0.0
Energy-Intensive Facilities (Thou. Gross Square Feet)		0.0		Energy-Intensive Facilities (Thou. Gross Square Feet)		0.0

1-3. Exempt Facilities

Note: this is for Street/airfield lighting constructed after 1985, no SF and approved by DOE

FY 2005

Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Site-Delivered Btu (Billion)	Est. Source Btu (Billion)	Est. Carbon Emissions (Metric Tons)
Electricity	MWH	5,747.0	\$376.1	\$0.07 /kWh	19.6	68.1	981
Fuel Oil	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0.0	0
Natural Gas	Thou. Cubic Ft.	0.0	\$0.0	#DIV/0! /Thou Cu Ft	0.0	0.0	0
LPG/Propane	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0.0	0
Coal	S. Ton	0.0	\$0.0	#DIV/0! /S. Ton	0.0	0.0	0
Purch. Steam	BBtu	0.0	\$0.0	#DIV/0! /MMBtu	0.0	0.0	0
Other	BBtu	0.0	\$0.0	#DIV/0! /MMBtu	0.0	0.0	
Exempt Facilities (Thou. Gross Square Feet)		Total Costs:	\$376.1	Total:	19.6	68.1	981
				Btu/GSF:	#DIV/0!	#DIV/0!	
				Btu/GSF w/ RE Purchase Credit:	#DIV/0!	#DIV/0!	
				Btu/GSF w/ RE & Sec. 502(e) Credit:	#DIV/0!	#DIV/0!	

1-3a. Exempt Facilities Out Year Projection

FY 2006			
Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)
Electricity	MWH	0.0	\$0.0
Fuel Oil	Thou. Gal.	0.0	\$0.0
Natural Gas	Thou. Cubic Ft.	0.0	\$0.0
LPG/Propane	Thou. Gal.	0.0	\$0.0
Coal	S. Ton	0.0	\$0.0
Purch. Steam	BBtu	0.0	\$0.0
Other	BBtu	0.0	\$0.0
Exempt Facilities (Thou. Gross Square Feet)		Total Costs:	\$0.0

FY 2007		
	Annual Consumption	Annual Cost (Thou. \$)
	0.0	\$0.0
	0.0	\$0.0
	0.0	\$0.0
	0.0	\$0.0
	0.0	\$0.0
	0.0	\$0.0
	0.0	\$0.0
Total Costs:		\$0.0
Standard Buildings/Facilities (Thou. Gross Square Feet)		0.0

1-4. Non-Fleet Vehicles and Other Equipment

Note: Data for this table will be provided by DESC)

	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Btu (Billion)	Est. Carbon Emissions (Metric Tons)
Auto Gasoline	Thou. Gal.			#DIV/0! /gallon	0.0	0
Diesel-Distillate	Thou. Gal.			#DIV/0! /gallon	0.0	0
LPG/Propane	Thou. Gal.			#DIV/0! /gallon	0.0	0
Aviation Gasoline	Thou. Gal.			#DIV/0! /gallon	0.0	0
Jet Fuel	Thou. Gal.			#DIV/0! /gallon	0.0	0
Navy Special	Thou. Gal.			#DIV/0! /gallon	0.0	0
Other	BBtu			#DIV/0! /MMBtu	0.0	
Total Costs			\$0.0		0.0	0

1-5. WATER CONSUMPTION, COST AND EFFICIENCY MEASURES

	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)
Water	Million Gal.	38,112.7	\$74,854.9
Best Management Practice Implementation Tracking Data			
Number of facilities* in agency inventory			176
Number of facilities with completed water management plans			104
Number of facilities with at least four (4) BMPs fully implemented			47
*number in the agency inventory, can be buildings, bases, or campuses			

1-6. RENEWABLE ENERGY/RENEWABLE ENERGY CERTIFICATE PURCHASES IN FY 2005

(Only include renewable energy purchases from resources developed after 1990)

Description of Each Renewable Energy Purchase (examples below, insert additional rows as necessary for each separate purchase)	Amount Purchased (MWH)	or	Amount Purchased (Million Btu)	State or Region of Generation or Source	End Use Category (Standard, EI, or Exempt)
Electricity from Renewable Source					
USAF	60.0			CO	Standard
RAF Lakenheath	11,178.0			England	Standard
Edwards AFB	132,780			CA	Standard
Grand Forks AFB	2,520			ND	Standard
Fairchild AFB	67,278			WA	Standard
Altus AFB	3,000			OK	Standard
Columbus AFB	42,610			AR	Standard
Goodfellow, TX	17,884			TX	Standard
Gunter	45,906			AL	Standard
Keesler, MS	42,000			MS	Standard
Lackland, TX	70,800			TX	Standard
Laughlin, TX	16,842			TX	Standard
Little Rock, AR	39,000			AR	Standard
Luke, AZ	3,000			AZ	Standard
Maxwell, AL	3,000			AL	Standard
Randolph, TX	36,000			TX	Standard
Sheppard, TX	48,586			TX	Standard
Tyndall, FL	50,400			FL	Standard
Vance, OK	12,000			OK	Standard
WHMC	5,084			TX	Standard
F.E. Warren, WY	4,547			WY	Standard
Barksdale	15,817			LO	Standard
Beale	14,579			CA	Standard
Cannon	9,357			NM	Standard
Davis-Monthan	13,146			AZ	Standard
Dyess	72,885			TX	Standard
Dyess Commissary	1,788			TX	Standard
Dyess - Off base sites	602			TX	Standard
Ellsworth	23,866			SD	Standard
Holloman	13,150			NM	Standard
Langley	21,891			VA	Standard
Minot AFB	103,202			ND	Standard
Mountain Home	9,282			ID	Standard
Nellis	23,749			NV	Standard
Offutt	23,587			NE	Standard
Seymour Johnson	12,520			NC	Standard
Shaw	15,869			SC	Standard
Whiteman	18,000			MI	Standard
Natural Gas from Landfill/Biomass	0.0		0.0		
Renewable Thermal Energy	0.0		0.0		
Other Renewable Energy (describe)	0.0		0.0		

Total All Purchases	1,047,766.3	0.0
Total Purchases for Standard Buildings	1,047,766.3	0.0
Total Purchases for Energy Intensive Facilities	0.0	0.0
Total Purchases for Exempt Facilities	0.0	0.0

1-7. SELF-GENERATED RENEWABLE ENERGY INSTALLED AFTER 1990

	Consumption Units	Total Annual Energy	Energy Used by Agency*
Electricity from Renewables	MWH	12,382.6	12,382.6
Natural Gas from Landfill/Biomass	MMBtu	695.8	695.8
Renewable Thermal Energy**	MMBtu	60,134.4	60,134.4
Other Renewable Energy, RDF & daylighting	MMBtu	1,920.5	1,920.5

*Energy used by agency equals total annual generation unless a project sells a portion of the energy it produces to another agency or the private sector. It can equal zero in the case of non-Federal energy projects developed on Federal land.

**Examples are geothermal, solar thermal, and geothermal heat pumps, and the thermal portion of combined heat and power projects. Energy savings from geothermal heat pumps should be based on energy savings compared to conventional alternatives like air-to-air heat pumps. If only electricity savings are known, multiply kWh savings by 3,412 to estimate renewable energy BTUs.

***For other renewable energy that does not fit any category, fill in the type, units used, annual consumption and cost, and include any additional information in your narrative submission. For example energy displaced by daylighting technology or passive solar design.

1-8. TOTAL RENEWABLE ENERGY USE AS A PERCENTAGE

OF FACILITY ELECTRICITY USE

Energy Use (BBtu)	Facility Electricity Use (BBtu)	Percentage of Electricity Use
3680.0	30,856.5	11.9%

PART 2: ENERGY EFFICIENCY IMPROVEMENTS

2-1. DIRECT AGENCY OBLIGATIONS

(Agencies may attach their final OMB Circular A-11 Energy and Transportation Efficiency Management Exhibit

	FY 2005		Projected FY 2006	
	(MMBTU)	(Thou. \$)	(MMBTU)	(Thou. \$)
Direct obligations for facility energy		\$61,310.0		\$65,346.2
Estimated annual savings	494,940.5	\$6,529.4	548,949.6	\$8,475.9

2-2. ENERGY SAVINGS PERFORMANCE CONTRACTS (ESPC)

	Annual savings (MMBTU)	(number/Thou. \$)
Number of ESPC Task/Delivery	422,212.0	8
Investment value of ESPC Task/Delivery Orders		\$49,909.5
Amount privately financed under ESPC Task/Delivery		\$49,909.5
Cumulative guaranteed cost savings of ESPCs		\$5,038.7
Total contract award value of ESPCs awarded in fiscal		\$105,714.3
Total payments made to all ESP contractors in fiscal		\$50,044.1

2-3. UTILITY ENERGY SERVICES CONTRACTS (UESC)

	Annual savings (MMBTU)	(number/Thou. \$)
Number of UESC Task/Delivery	82,610.8	3
Investment value of UESC Task/Delivery Orders		\$6,105.1
Amount privately financed under UESC Task/Delivery		\$6,105.1
Cumulative cost savings of UESC awarded in fiscal		\$895.5
Total contract award value of UESC awarded in fiscal		\$8,862.2
Total payments made to all UESC contractors in fiscal		\$23,909.2

2-4. UTILITY INCENTIVES (REBATES)

	Annual savings (MMBTU)	(Thou. \$)
Incentives received and estimated	813.0	\$1,551.0
Funds spent in order to receive		\$0.0

2-5. TRAINING

	(number)	(Thou. \$)
Number of personnel	2,177	\$327.0

**AGENCY COMPILATION WORKSHEET FOR SECTION 502(e) CREDIT FOR
PROJECTS THAT INCREASE SITE ENERGY USE BUT SAVE SOURCE ENERGY**
(See http://www.eere.energy.gov/femp/pdfs/sec502e_%20guidance.pdf)

Standard Buildings/Facilities

Name of Project Saving Source Energy in Current Fiscal Year (insert additional rows as necessary)	Annual Site Energy Increase with the Project (Million Btu)	Annual Source Energy Saved with the Project (Million Btu)	502(e) Adjustment to Annual Site Energy (Million Btu)
Project No. 1	0.0	0.0	0.0
Project No. 2	0.0	0.0	0.0
Project No. 3	0.0	0.0	0.0
Totals	0.0	0.0	0.0

Industrial, Laboratory, Research, and Other Energy-Intensive Facilities

Name of Project Saving Source Energy in Current Fiscal Year (insert additional rows as necessary)	Annual Site Energy Increase with the Project (Million Btu)	Annual Source Energy Saved with the Project (Million Btu)	502(e) Adjustment to Annual Site Energy (Million Btu)
Project No. 1	0.0	0.0	0.0
Project No. 2	0.0	0.0	0.0
Project No. 3	0.0	0.0	0.0
Totals	0.0	0.0	0.0

Exempt Facilities

Name of Project Saving Source Energy in Current Fiscal Year (insert additional rows as necessary)	Annual Site Energy Increase with the Project (Million Btu)	Annual Source Energy Saved with the Project (Million Btu)	502(e) Adjustment to Annual Site Energy (Million Btu)
Project No. 1	0.0	0.0	0.0
Project No. 2	0.0	0.0	0.0
Project No. 3	0.0	0.0	0.0
Totals	0.0	0.0	0.0



OFFICE OF THE UNDER SECRETARY OF DEFENSE
3000 DEFENSE PENTAGON
WASHINGTON, DC 20301-3000

ACQUISITION
TECHNOLOGY
AND LOGISTICS

AUG 22 2005

MEMORANDUM FOR ASSISTANT SECRETARY OF THE ARMY
(INSTALLATIONS AND ENVIRONMENT)
ASSISTANT SECRETARY OF THE NAVY
(INSTALLATIONS AND ENVIRONMENT)
ACTING ASSISTANT SECRETARY OF THE AIR FORCE
(INSTALLATIONS, ENVIRONMENT AND LOGISTICS)
DIRECTOR, ADMINISTRATION AND MANAGEMENT
DIRECTORS OF DEFENSE AGENCIES

SUBJECT: FY 2005 Annual Energy Management Report

Executive Order (EO) 13123 requires that Federal Agencies measure and report annually to the President their progress in meeting the goals and requirements of the EO. This report is to be submitted to the Department of Energy (DoE) and the Office of Management and Budget (OMB). Defense Agencies who control Federally-owned building space or directly pay the utilities in leased space are required to submit an energy management report to the Office of the Deputy Secretary of Defense (Installations and Environment).

The report continues to cover energy consumption for tactical vehicles and different categories of buildings, water consumption, strategies used to reduce energy consumption and improve efficiency, and renewable energy utilization.

The DoE annual report guidance and OMB Circular A-11 guidance, along with DoD specific guidance and all the relevant downloadable forms, are available at the following website:

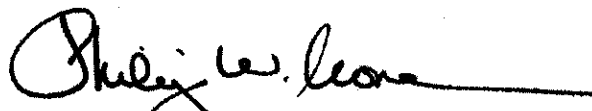
http://www.acq.osd.mil/ic/irm/Energy/energymgmt_report/fy05/energymgmt05.htm.

The OMB Circular A-11 is required to be incorporated with the budget submission. In order to meet deadlines set by DoE and OMB, we need your input in accordance with the following schedule:

<u>Report</u>	<u>Due Date</u>
OMB Circular A-11, Exhibit 55	October 28, 2005
FY 2005 DoD Energy Scorecard and Data Report	October 28, 2005
FY 2005 Annual Energy Management Report	November 10, 2005
FY 2006 Energy Management Implementation Plan	November 10, 2005

Please ensure that the information provided in the A-11 matches that in the scorecard, data report, and narrative. Additionally, please provide a detailed explanation for any goal that is not met. Defense Components will only need to provide LPG/Propane data used for mobile equipment for table 1-4 of the "DoD Energy Management Data Report." Fuel consumption data will be provided by the Defense Energy Support Center issues of fuel to consuming platforms.

DLA/DESC is tasked with consolidating all Defense Component information and preparing this report for the Department. Data submissions should be submitted to: desc.aiteam@dla.mil, with a copy to robert.tomiak@osd.mil. My point of contact for this task is CDR Rob Tomiak. He can be reached at (703) 571-9074, FAX (703) 693-2659. DoD agencies should provide a POC and contact information no later than September 30, 2005.

A handwritten signature in black ink, appearing to read "Philip W. Grone", with a long horizontal line extending to the right.

Philip W. Grone
Deputy Under Secretary of Defense
(Installations and Environment)

-----Original Message-----

From: Grages Jeff K Civ AFELM/VEMSO [mailto:Jeff.Grages@langley.af.mil]

Sent: Friday, October 21, 2005 8:26 AM

To: Adams Timothy K Contr AFCESA/CESM

Cc: Milligan Ricky LtCol AF/ILGM; Cernac Tom CMSgt AF/ILGM; Batchelor Charles F Civ AFELM/VEMSO; Mays Craig E Maj AFELM VEMSO/; Pirson Michael A SMSgt AF/ILGM; Salgado Abel SMSgt AF/ILGM

Subject: RE: Annual A11-55 Exhibit Annual Energy Report

Importance: High

Tim,

This year's suspense was quite a bit different than last year's and thus required us to formulate projections without our EOY data which is normally used as a baseline. Our present asset management system will not have EOY cost data available until mid-November. Please keep in mind that the cost data (atch: USAF DoD revised OMB A-11 report 21 Oct 05 Costs.xls) is the result of educated estimations/calculations based on the last three years expenditures and projections. Note: We are presently testing a new asset management system (LIAMS, Logistics Integrated Asset Management System) that will eventually enable us to gather real time data.

The fuel consumption data (atch: USAF DoD DataReport FY05 17 Oct 05 Table 1_4 Fuel.xls) is a consolidation of all ground fuels that require a VIL key for access to our military fuel stations and came directly from DESC. At this time we are working with AFPET & DESC to improve the VIL key coding guidance to the field.

In any case, here are the spreadsheets for subject matter and per our telecon, we should be able to have an ILGM coordinated narrative and more concise data by 10 Nov 05.

Note: ILGM has not coordinated on the attached spreadsheets because they are all at a conference this entire week.

Have a good one and give me a call if you have any questions.

Jeff

Jeff Grages

HAF AFELM VEMSO

Langley AFB, VA

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Fax: 757-764-4415

Website: <https://www.vemso.hq.af.mil>